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AMENDMENTS TO THE CLAIMS

This listing of claims will replace all prior versions and listing of claims in the Application. Please amend the claims to read as follows and cancel without prejudice or disclaimer the claims marked as canceled:

1. (Currently Amended) A method of scanning channels on a station, the method comprising:
determining ~~an identifier of a wireless device in~~ a current area where ~~[[a]]~~ the station is currently situated;
~~selecting using said identifier to identify~~ a plurality of channels from a list comprising channels to which the station has in the past connected, wherein each of said past connected channels has past connection data associated therewith, and wherein said selecting comprises determining which of said past connected channels were connected to with which said station has previously associated within said determined current area; and
scanning said plurality ~~of selected~~ channels according to a scanning order determined by said past connection data, ~~an associative history of said plurality of channels.~~
2. (Currently Amended) A method as in Claim 1, comprising identifying wherein said wireless device provides a basic service set located in said determined current area.
3. (Currently Amended) A method as in Claim ~~[[1]]~~ 2, wherein said ~~identifier identifying comprises is determined by~~ assuming said station has recently ~~associated with said wireless device~~ connected to said basic service set.
4. (Canceled)
5. (Canceled)
6. (Currently Amended) A method as in claim 1, comprising ~~selecting~~ identifying a channel with which to connect from said plurality ~~of selected channels with which to associate.~~

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7. (Currently Amended) A method as in claim 6, wherein said identifying selecting includes at least comprises evaluating a quality of transmission of at least one of said plurality of selected channels.
8. (Currently Amended) A method as in claim 1, comprising updating said past connection data based on said scanning a list of channels with data collected in a scan of said plurality of channels.
9. (Original) A method as in claim 1, comprising updating a list of service sets with service sets that are identified during said scanning.
10. (Currently Amended) A method as in claim 1, comprising updating said scanning order based on data collected during said scanning, about said plurality of channels.
11. (Currently Amended) A station comprising:
a processor to determine ~~an identifier of a wireless device in~~ a current area where the station is currently situated and select use said identifier to identify a plurality of channels from a list comprising channels to which the station has in the past connected, wherein each of said past connected channels has past connection data associated therewith, and wherein said selecting comprises determining which of said past connected channels were connected to with which the station has previous associated within said determined current area and scan said plurality of selected channels according to a scanning order determined by said past connection data an associative history of said plurality of channels; and
a memory operably connected to said processor to store said list data about said plurality of channels.
12. (Previously Presented) A station as in claim 11, wherein said processor is to detect a service set and select at least one channel used for transmissions with said service set.
13. (Currently Amended) A station as in claim 11, wherein said processor is to detect a basic service set operating in said determined current area and [[to]] select at least one channel used for transmissions with in the current area of said basic service set.
14. (Previously Presented) A station as in claim 11, wherein said memory is to store data about channels used for transmissions with at least one service set.

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15. (Previously Presented) A station as in claim 11, wherein said memory is to store data about transmitters in the current area of a basic service set.
16. (Currently Amended) A station as in claim 11, wherein said processor is to select an access point with which to connect ~~for association~~ based on a quality of transmission with said access point.
17. (Currently Amended) A station as in claim 11, wherein said processor is to update said past connection data based on ~~memory with data collected in~~ said scanning.
18. (Canceled)
19. (Currently Amended) A station comprising a processor readable storage medium having instructions for a processor stored thereon that, when executed by the processor, result in:
determining ~~an identifier of a wireless device in~~ a current area where the station is currently situated;
selecting using said identifier to identify a plurality of channels from a list comprising channels to which the station has in the past connected, wherein each of said past connected channels has past connection data associated therewith, and wherein said selecting comprises determining which of said past connected channels were connected to with which the station has previously associated within said determined current area; and
scanning said ~~plurality of~~ selected channels according to a scanning order determined by said past connection data, ~~an associative history of said plurality of channels.~~
20. (Currently Amended) A station as in claim 19, wherein said execution of said instructions further ~~result~~ results in updating said past connection data based on said scanning, ~~a list of channels with data collected in a scan of said plurality of channels.~~
21. (Currently Amended) A station as in claim 19, wherein said execution of said instructions further ~~result~~ results in updating said scanning order based on data collected during said scanning, ~~about said plurality of channels.~~
22. (Currently Amended) A station comprising:

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a dipole antenna;

a processor operably connected to said dipole antenna to determine ~~an identifier of a wireless device in~~ a current area where the station is currently situated and select use said identifier to identify a plurality of channels from a list comprising channels to which the station has in the past connected, wherein each of said past connected channels has past connection data associated therewith, and wherein said selecting comprises determining which of said past connected channels were connected to with which the station has previous associated within said determined current area and scan said ~~plurality of selected~~ channels according to a scanning order determined by said past connection data ~~an associative history of said plurality of channels;~~ and

a memory operably connected to said processor to store said list ~~data about said plurality of channels.~~

23. (Previously Presented) A station as in claim 22, wherein said processor is to detect a service set operating in said current area and select at least one channel used for transmissions with said service set.
24. (Currently Amended) A station as in claim 22, wherein said processor is to update said past connection data based on said scanning ~~a list of channels with data collected in a scan of said plurality of channels.~~
25. (Currently Amended) A communication system comprising:
 - a station;
 - an access point situated in a current area;
 - a station currently situated within said current area, comprising:
 - a ~~controller~~ processor to determine said current area and select a plurality of channels from a list comprising channels to which said station has in the past connected, wherein each of said past connected channels has past connection data associated therewith, and wherein said selecting comprises determining which of said past connected channels were connected to within said determined current area and scan said selected channels for connectivity with said access point according to a scanning order determined by said past connection data ~~to identify at least one~~

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~~channel to be scanned in an area from among a plurality of channels upon which
said access point transmits; and~~

~~a memory operably connected to said processor to store said list data about said
plurality of channels useable for transmissions in said area, wherein said data
includes at least a scanning order associated with said area.~~

26. (Currently Amended) A communication system as in claim 25, wherein said
~~controller processor~~ processor is ~~[[used]]~~ to detect a service set operating in said determined
current area and select at least one channel used for transmissions with said service
set.
27. (Currently Amended) A communication system as in claim 25, wherein said
~~controller processor~~ processor is to update said past connection data based on said scanning, a
~~table of said identified channels with data collected on said at least one channel.~~
28. (Canceled)